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APPLICATION	vo. Fili	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/937,587	09/	/27/2001	Sundar J. Rajan	54676US002	2684
32692	7590	03/21/2006	EXAMINER		
3M INN PO BOX		ROPERTIES CO	CHEVALIER,	CHEVALIER, ALICIA ANN	
ST. PAUL, MN 55133-3427				ART UNIT	PAPER NUMBER
	-	٠		1772	

DATE MAILED: 03/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summary	09/937,587	RAJAN ET AL.				
	Examiner	Art Unit				
The MAILING DATE of this communication app	Alicia Chevalier	1772				
Period for Reply	rears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period value to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 13 Fe	ebruary 2006 and 25 January 200	<u>06</u> .				
2a) This action is FINAL . 2b) ⊠ This						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
 4) Claim(s) 1-4 and 7-37 is/are pending in the appending of the above claim(s) 20-36 is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-4, 7-19 and 37 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	n from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine 11).	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) ,						
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)				

RESPONSE TO AMENDMENT

Request for Continued Examination

- 1. The Request for Continued Examination (RCE) under 37 CFR 1.53 (d) filed on February 13, 2006 is acceptable and a RCE has been established. An action on the RCE follows.
- 2. Claims 1-4 and 7-37 are pending in the application, claims 20-36 are withdrawn from consideration. Claims 5 and 6 have been cancelled.
- 3. Amendments to the claims, filed on January 25, 2006, have been entered in the above-identified application.

REJECTIONS

4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

5. Claims 1-4, 7-19 and 37 rejected under 35 U.S.C. 103(a) as being unpatentable over Orensteen et al. (U.S. Patent No. 5,508,105) in view of Lu (U.S. Patent No. 5,670,096).

Orensteen discloses a signage article comprising a retroreflective core sheeting material with a surface binder layer of polyvinyl butyral or synthetic polyester (substrate comprising a noncellulosic organic polymeric surface) [col. 11, lines 3-24], a cured multi-function layer (a radiation cured coating disposed on the noncellulosic polymeric surface) [col. 11, line 63 to col. 12, line 7], and indicia formed from resin based colorant/binder (a marking material disposed on

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the radiation cured coating). See column 14, lines 31-48 and figure 3. The cured multi-function layer comprises an aliphatic acrylated urethane (e-beam/uv-curable composition) [col. 10, lines 14-49]. Furthermore, Orensteen does not disclose the need or use of a protective coating over the marking material [figure 3]. The signage article has use in validation stickers [col. 1, lines 51-57].

Orensteen fails to disclose tat the signage article is a radiation cured coating.

Lu discloses a signage article (retroreflective article, title) comprising a substrate (array microlenses, col. 5, line 25 and figure 2) comprising a noncellulosic organic polymer surface (col. 9, lines 20-34), a radiation cured coating (spacing layer, col. 5, line 25 and figure 2) cross linked by exposure radiation selected from the group consisting of ultraviolet radiation, visible radiation, electron beam radiation, and combinations thereof disposed on the noncellulosic organic polymeric surface (col. 7, lines 53-66 and claim 2) and a marking material (ink, col. 5, lines 39-40) disposed on the radiation cured coating (figure 2). The radiation cured coating is deemed to be an exposed surface, since it is exposed to the marking (figure 2).

In the instant case, Lu does not explicitly teach the properties wherein the marking material is not substantially removed from the signage article upon wiping the marking material with gasoline for five cycles, ten cycles, or twenty cycles, upon abrading the marking material for 1000 scrub cycles, or upon applying a pressure sensitive adhesive-coated tape to the marking material under thumb pressure and removing it. Also, Lu does not explicitly teach the properties wherein the radiation cured coating is not substantially removed from the signage article upon wiping the marking material with gasoline for five cycles, upon abrading the marking material

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for 1000 scrub cycles, or upon applying a pressure sensitive adhesive-coated tape to the marking material under thumb pressure and removing it.

However, it has been held that where claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a *prima facie* case of either anticipation has been established and the burden of proof is shifted to applicant to show that prior art products do not necessarily or inherently possess characteristics of claimed products where the rejection is based on inherency under 35 USC 102. Therefore, the *prime facie* case can be rebutted by *evidence* showing that the prior art products do not necessarily possess the characteristics of the claimed product. MPEP 2112.01.

Therefore, in addition to the above disclosed limitations, the presently claimed properties would have inherently been present because Lu discloses the same materials used for the radiation cured coating (i.e. acrylates, col. 9, lines 11-19) and the marking material (ink, col. 5, lines 39-40). MPEP 2112.01

The substrate comprises a noncellulosic organic polymeric surface comprising a retroreflective sheeting (col. 7, lines 41-66).

The retroreflective sheeting is deemed to be part of a validation sticker, since the retroreflective sheet, i.e. base sheet, is adhesively adhered to the surface of a document (col. 5, lines 42-44).

The marking material may comprise a second ink formulations comprising a colorant and a binder and the binder comprises a polymer selected from the group of a polyester, a vinyl, a polyelefin, a polyvinyl acetal, an alkyl or aryl substituted arcylate or methacrylate, a copolymer

of ethylene or propylene with acrylic acid, methacrylic acid, or vinyl acetate, and combinations thereof (col. 13, lines 1-6).

The uv-curable composition comprises an acrylate (col. 9, lines 11-19).

The limitation "radiation cured coating is pattern coated" is a method limitation and does not determine the patentability of the product, unless the process produces unexpected results. The method of forming the product is not germane to the issue of patentability of the product itself, unless Applicant presents evidence from which the Examiner could reasonably conclude that the claimed product differs in kind from those of the prior art. MPEP 2113. Furthermore, there does not appear to be a difference between the prior art structure and the structure resulting from the claimed method because Lu discloses a radiation cured coating on a substrate.

The signage articles does not include a protective coating over the material (figure 2). The signage article is a product authentication article (col. 2, lines 40-41).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use Lu's uv-curable composition as the composition of the surface layer in Orenstten in order to improve the retroreflective luster.

ANSWERS TO APPLICANT'S ARGUMENTS

6. Applicant's arguments in the response filed January 25, 2006 regarding the previous rejection of record have been considered but are moot due to the new grounds of rejection.

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Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia Chevalier whose telephone number is (571) 272-1490. The examiner can normally be reached on Monday through Friday from 8:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached on (571) 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

3/16/06

ALICIA CHEVALIER